

IN THE CLAIMS

The claims are as follows:

1. (Currently Amended) A golf ball comprising at least one layer formed from a light
Light stable polyurethane composition ~~compositions for golf balls comprising~~ consisting
essentially of:
 - at least one prepolymer comprising:
 - at least one saturated low free isocyanate;
 - at least one saturated polyol, and
 - at least one saturated curing agent.
2. (Currently Amended) The golf ball ~~polyurethane composition~~ of claim 1, wherein the
at least one saturated low free isocyanate comprises 1,6-hexamethylene diisocyanate.
3. (Currently Amended) The golf ball ~~polyurethane composition~~ of claim 1, wherein the
at least one saturated polyol is selected from the group consisting of saturated polyether
polyols, saturated polycaprolactone polyols, saturated polyester polyols, saturated
polycarbonate polyols, saturated hydrocarbon polyols, aliphatic polyols, and mixtures
thereof.
4. (Currently Amended) The golf ball ~~polyurethane composition~~ of claim 3, wherein the
saturated polyether polyols are selected from the group consisting of polytetramethylene
ether glycol, PTG-L, poly(oxyethylene) glycol, poly(oxypropylene) glycol, poly(ethylene
oxide capped oxypropylene) glycol, and mixtures thereof.
5. (Currently Amended) The golf ball ~~polyurethane composition~~ of claim 1, wherein the
at least one saturated curing agent is selected from the group consisting of hydroxy-
terminated curing agents, amine-terminated curing agents, and mixtures thereof.
6. (Currently Amended) The golf ball ~~polyurethane composition~~ of claim 5, wherein the
hydroxy-terminated curing agents are selected from the group consisting of ethylene glycol;
diethylene glycol; polyethylene glycol; propylene glycol; 2-methyl-1,3-propanediol; 2,-
methyl-1,4-butanediol; dipropylene glycol; polypropylene glycol; 1,2-butanediol; 1,3-

butanediol; 1,4-butanediol; 2,3-butanediol; 2,3-dimethyl-2,3-butanediol; trimethylolpropane; cyclohexyldimethylol; triisopropanolamine; tetra-(2-hydroxypropyl)-ethylene diamine; diethylene glycol di-(aminopropyl) ether; 1,5-pentanediol; 1,6-hexanediol; 1,3-bis-(2-hydroxyethoxy) cyclohexane; 1,4-cyclohexyldimethylol; 1,3-bis-[2-(2-hydroxyethoxy) ethoxy] cyclohexane; 1,3-bis-{2-[2-(2-hydroxyethoxy) ethoxy] ethoxy} cyclohexane; trimethylolpropane; polytetramethylene ether glycol; and mixtures thereof.

7. (Currently Amended) The golf ball polyurethane composition of claim 1, wherein the composition further comprises a catalyst selected from the group consisting of a bismuth catalyst, an oleic acid, triethylenediamine, di-butyltin dilaurate, acetic acid, and mixtures thereof.

8. (Currently Amended) The golf ball polyurethane composition of claim 1, wherein the prepolymer comprises low free 1,6-hexamethylene diisocyanate and polytetramethylene ether glycol, wherein the saturated curing agent comprises 1,4-butanediol, and wherein the composition further comprises di-butyltin dilaurate.

9. (Currently Amended) The golf ball polyurethane composition of claim 1, wherein the golf ball has an outermost layer, and wherein the composition is disposed within the outermost layer of the golf balls.

10. (Original) A golf ball comprising:
a core;
a layer disposed about the core forming a center; and
a cover cast onto the center, wherein the cover comprises a light stable castable reactive liquid polyurethane material comprising a saturated diisocyanate, a dimerate polyester polyol, and at least one of a saturated hydroxy-terminated curing agent, a saturated amine-terminated curing agent, or a mixture thereof.

11. (Original) The golf ball of claim 10, wherein the saturated diisocyanate is selected from the group consisting of isophoronediiisocyanate, 4,4'-dicyclohexylmethane diisocyanate, 1,6-hexamethylene diisocyanate, or a combination thereof.

12. (Original) The golf ball of claim 10, wherein the saturated hydroxy-terminated curing agent is selected from the group consisting of ethylene glycol; diethylene glycol; polyethylene glycol; propylene glycol; 2-methyl-1,3-propanediol; 2,-methyl-1,4-butanediol; dipropylene glycol; polypropylene glycol; 1,2-butanediol; 1,3-butanediol; 1,4-butanediol; 2,3-butanediol; 2,3-dimethyl-2,3-butanediol; trimethylolpropane; cyclohexyldimethylol; triisopropanolamine; tetra-(2-hydroxypropyl)-ethylene diamine; diethylene glycol di-(aminopropyl) ether; 1,5-pentanediol; 1,6-hexanediol; 1,3-bis-(2-hydroxyethoxy) cyclohexane; 1,4-cyclohexyldimethylol; 1,3-bis-[2-(2-hydroxyethoxy) ethoxy] cyclohexane; 1,3-bis-{2-[2-(2-hydroxyethoxy) ethoxy] ethoxy} cyclohexane; trimethylolpropane; polytetramethylene ether glycol; and mixtures thereof.

13. (Original) The golf ball of claim 10, wherein the material comprises 4,4'-dicyclohexylmethane diisocyanate, dimerate polyester polyol, and 1,4-butanediol.

14. (Original) The golf ball of claim 10, wherein the cover has a thickness of about 0.02 inches to about 0.35 inches.

15. (Currently Amended) A ~~polyurethane composition~~ for a golf ball comprising at least one layer formed from a polyurethane composition comprising:

- a saturated diisocyanate;
- a hydroxy-terminated dimerate polyester polyol; and a
- a saturated hydroxy-terminated curing agent.

16. (Currently Amended) The golf ball ~~polyurethane composition~~ of claim 15, wherein the hydroxy-terminated dimerate polyester polyol is aliphatic.

17. (Currently Amended) The golf ball ~~polyurethane composition~~ of claim 15, wherein the saturated diisocyanate is selected from the group consisting of isophoronediiisocyanate, 4,4'-dicyclohexylmethane diisocyanate, 1,6-hexamethylene diisocyanate, or a combination thereof, and wherein the saturated hydroxy-terminated curing agent is selected from the group consisting of ethylene glycol; diethylene glycol; polyethylene glycol; propylene glycol; 2-methyl-1,3-propanediol; 2,-methyl-1,4-butanediol; dipropylene glycol; polypropylene glycol; 1,2-butanediol; 1,3-butanediol; 1,4-butanediol; 2,3-butanediol; 2,3-dimethyl-2,3-butanediol; trimethylolpropane; cyclohexyldimethylol; triisopropanolamine; tetra-(2-

hydroxypropyl)-ethylene diamine; diethylene glycol di-(aminopropyl) ether; 1,5-pentanediol; 1,6-hexanediol; 1,3-bis-(2-hydroxyethoxy) cyclohexane; 1,4-cyclohexyldimethylol; 1,3-bis-[2-(2-hydroxyethoxy) ethoxy] cyclohexane; 1,3-bis-{2-[2-(2-hydroxyethoxy) ethoxy] ethoxy} cyclohexane; trimethylolpropane; polytetramethylene ether glycol; and mixtures thereof.

18. (Currently Amended) The golf ball ~~polyurethane composition~~ of claim 17, wherein the saturated diisocyanate is 4,4'-dicyclohexylmethane diisocyanate and wherein the saturated hydroxy-terminated curing agent is 1,4-butanediol.